

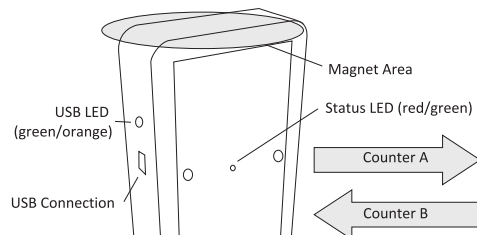
USB People Counter

1. Check the contents

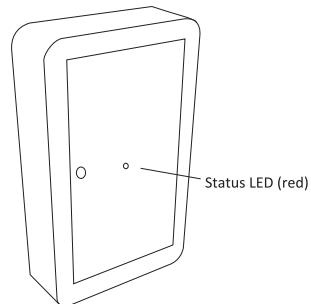
- Receiver with USB connection (PRx20U2)
- Transmitter (PTx20-1)
- Magnet key hanger
- Screwdriver
- 2x Screw to lock covers
- 4x AA Alkaline Batteries
- USB Cable
- USB Adapter cable
- USB Memory Stick (optional)
- This Installation Guide

Specifications

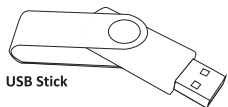
- Power supply : 2x 1.5V AA Alkaline Battery
- Battery life : 1 year
- Measurement width : 8 meter
- Material : ABS Black



Receiver (PRx20U2)



Transmitter (PTx20-1)



USB Stick



USB Adapter cable

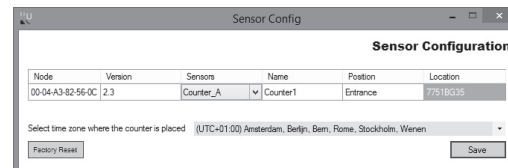
2. Software requirements

Please first download the latest IMMOTION software from www.im-motion.com/downloads/
Please note the IMMOTION software requires windows 10 or Windows Server.

After the installation a Start Menu folder, named IMMOTION, is created containing shortcuts to the used Applications.

3. First time setup

To identify the People Counter in the software you can give the People Counter a name, position and location. Please start the Sensor Tool to setup these names and the timezone in which the counter will be installed. When the application is started, you can connect the People Counter. Once the current settings are read out you have the possibility to enter the Name, Position and Location of the People Counter. Enter information which corresponds to the place where the People Counter will be mounted, for example: Name: Counter1, Position: Entrance, Location: 7751BG35. The Location field is in most cases an administrative code of the location. When ready, click the Save button to store this information into the People Counter.



4. Mount the People Counter

When mounting the People Counter take care of the following:

- The maximum distance between the transmitter PTx20-1 and receiver PRx20U2 is 8 meter
- To count adult people use a mounting height between 125 and 140cm.
- Use a wall or another steady object to mount the People Counter on.

Additional information

The measurement width of 8 will decrease when the infrared signal goes through glass or when full sunlight is shining directly into the receiver at a low angle.

Note for the PRx20U2:

ENI (Enhanced Noise Immunity)

The PRx20U2 is featured with the Enhanced Noise Immunity. The ENI uses DSP technology to filter out disturbances received from the environment like AM anti-shoplifting systems and Infrared sources.

When there is too much noise the red led will light up. In this case find the cause of the disturbance and try to take it away.

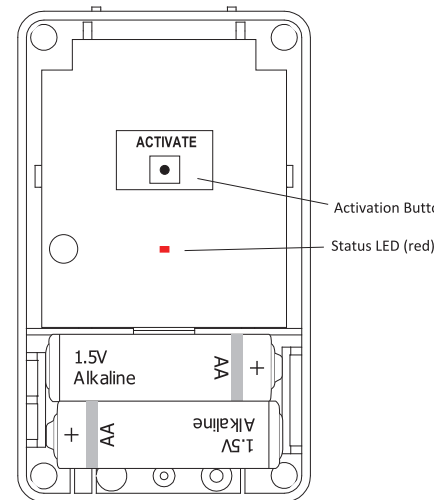
5. Place the batteries

To power on the Transmitter (PTx20-1) and Receiver (PRx20U2) place the batteries into the battery compartment.

Please take note of the the polarity of the batteries when placing them.

The Status LED on the Receiver will blink first red followed by green when the batteries are placed.

To Activate the Transmitter press and release the small Activation Button [see picture below].
The Status LED will blink twice during activation.



Transmitter (PTx20-1)

6. Check the alignment

To have accurate counting the receiver needs to 'see' the transmitter.

The receiver contains an alignment feature which helps you to point the transmitter to the receiver.

To enable the alignment mode slide the magnet on the top of the receiver (PRx20U2) [magnet area].

When the led is blinking red you need to point the transmitter to the receiver until the led lights up green continuously.

Please try to find the middle of the light beam during the alignment.

Accuracy of the People Counter

The accuracy of the counter will be higher when the distance between the transmitter and receiver gets smaller. When more persons interrupt the infrared beam at once the People Counter will increase the count value by one.

7. Start counting

The counter stores the count values including a timestamp in its memory. When counts are created within a minute it will be stored into the memory.

The green status led on the receiver will blink once when a count is created.

8. Data download

The memory of the counter can store up to 40 days of minutely data.

To read out the memory use the adapter cable to connect an USB stick to the counter.

Once the adapter cable is connected the USB led will light up orange. When the USB stick is connected the USB led will start to blink green.

The USB stick can be removed when the green led stops blinking. Now the complete memory of the counter is stored on the USB stick and ready to be imported into the SensorServer.

Note

Multiple counters can be read out with a single USB stick since the counter is configured with Name, Position and Location information.

9. Data Import

Use the USB MEM upload Application to upload the data from one or more counters to the IMMOTION database and make it visible in the EasyReports.

Once the Application is started it will search for memory files containing the data. Select the counters you want to upload and click on the 'Upload' button.

A progressbar indicates the total progress of the file upload. Once ready the data can be displayed using the IMMOTION's EasyReports.

Note:

It is possible to place the MEM upload Application on the USB stick. The SensorServer can be installed on a different PC than from where you upload the memory files.

Note: USB Stick

Please use a USB Stick which is formatted as FAT or FAT32.

10. Additional Information

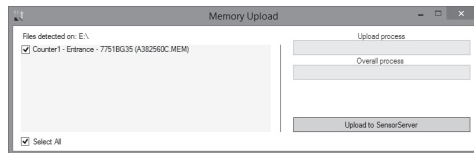
Low battery detection:

The receiver and transmitter are both equipped with a low battery detection.

The red led will blink every 2.5 seconds indicating the low battery state. During this state you have enough time to replace the battery.

Internal Clock:

The receiver contains an internal clock to keep track of the current date and time.



It is recommended to connect the receiver once a year with the Sensor Tool to synchronize the clock. This way the date and time of the data stays accurate.